

ISIS - Bug #633

Cannot intersperse comments throughout a PVL file using the Pvl classes in ISIS

2011-12-15 10:08 AM - Janet Barrett

Status:	Closed	
Priority:	Normal	
Assignee:	Stuart Sides	
Category:	API	
Target version:	N/A	
Impact:		Software Version:
Description <p>I tried to create an output PVL file with separate groups in it and provide comments for each separate group. This was necessary for the photometry software. I learned that you cannot intersperse comments in a PVL file using the Pvl classes in ISIS. All comments end up at the very top of the PVL file and are not placed in the file in the order that they were specified. For example, a photometric file that has several photometric models needs to have a comment above each model describing it. It doesn't make sense to put all the comments about all the models in one group at the very top of the file. I was able to work around this problem by creating a PVL in memory using a standard text stream. It would be nice if the Pvl classes would allow this capability.</p>		

History

#1 - 2012-01-25 10:41 AM - Janet Barrett

This problem was confirmed but has not been assigned. It needs to be assigned to someone trusted to touch the PVL classes.

#2 - 2012-08-16 12:55 PM - Stuart Sides

IMPACT

This has the potential to change any PVL in ISIS. If a PVL GROUP or OBJECT has a misplaced comment then changing the current algorithm could cause tests in the system to fail due to the change in an output PVL. Potential files include: print.prt, control nets (ASCII), projection, autoreg, ... templates.

It is unlikely any application will produce different results due to a change in the way PVLs place the comments.

#3 - 2012-08-16 01:51 PM - Stuart Sides

Janet, Could you please provide me with some sample code that produced this error? I have looked at the code and written a test application and have been unable to reproduce this bug. You indicated you found a way around this bug, but do you still have the code that shows the problem?

I've implemented a small test application to assist me with this ticket. See:

m00633/isis/src/base/apps/pvltest

The version of ISIS was built on Fedora16 (my desktop). I can provide more if it helps.

#4 - 2012-08-28 02:15 PM - Janet Barrett

Stuart, I have spent some time revisiting this problem and I generated some code that may have answered my question about adding comments to Pvl groups. I created a program called "testpvl" in /work/projects/progteam/jbarrett/testpvl that demonstrates the problem I ran into with adding comments to Pvl groups. I misunderstood that adding comments to a Pvl group would cause the comments to be added internally to the group along with the keywords. I now realize that if I want a comment to appear internal to a group, then I need to add the comment to a keyword within that group. You can look at and run the testpvl program to see what I was trying to do. Ignore the testpvl.xml Gui interface. Just hit the run button to see the program run. Let me know if you have questions.

At this point I feel that this post can be closed because I have now figured out how to add comments inside of a Pvl group.

#5 - 2012-08-30 10:38 AM - Stuart Sides

Janet, I see what you were trying to do. I'm resolving the post with no changes made, so you can close it.

#6 - 2012-09-07 02:45 PM - Janet Barrett

Thanks Stuart.

#7 - 2013-08-15 01:21 PM - Anonymous

- *Target version changed from 150 to N/A*